PATENT ABSTRACTS OF JAPAN

(11)Publication number:

10-225685

(43) Date of publication of application: 25.08.1998

(51)Int.Cl.

C02F 1/44 B01D 65/02

C02F 1/78

(21)Application number: 09-031696

(71)Applicant: HITACHI LTD

(22)Date of filing:

17.02.1997

(72)Inventor: GOTO TAKASHI

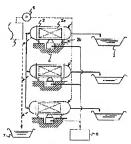
SHIONO SHIGEO

YAMASHITA MASAYUKI NAKAZAWA MASAMITSU

(54) WATER PURIFYING TREATMENT DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To easily discharge clogging material in a filter membrane to lower the replacement frequency of an expensive fitter membrane in a water treatment facility equipped with a membrane filter in the poststage of an ozonization device by applying mechanical vibration to the membrane filter. SOLUTION: In a water treatment device suitably used when securing emergency treated water on disaster such as earthquake, water to be treated is subjected to oxidation reaction by an ozonization device 1 to remove organic matter in the water to be treated and decrease a load of a membrane filter 2 of the poststage. In the membrane filter 2, a filter membrane 2a is loaded into a tank, and the filtered water which has been treated there



is discharged to a treatment tank 3. In this case, the membrane filter 2 is supported by springs 2b and mechanical vibration is applied to the filter membrane 2a by an excitor 4. And when the filter membrane 2a is clogged, clogging material is removed by backwashing, and at this time, an electric signal is given from an excitation power source/controller 5 to give mechanical vibration from the excitor 4, causing the clogging material to be easily removed.